Fig. 1

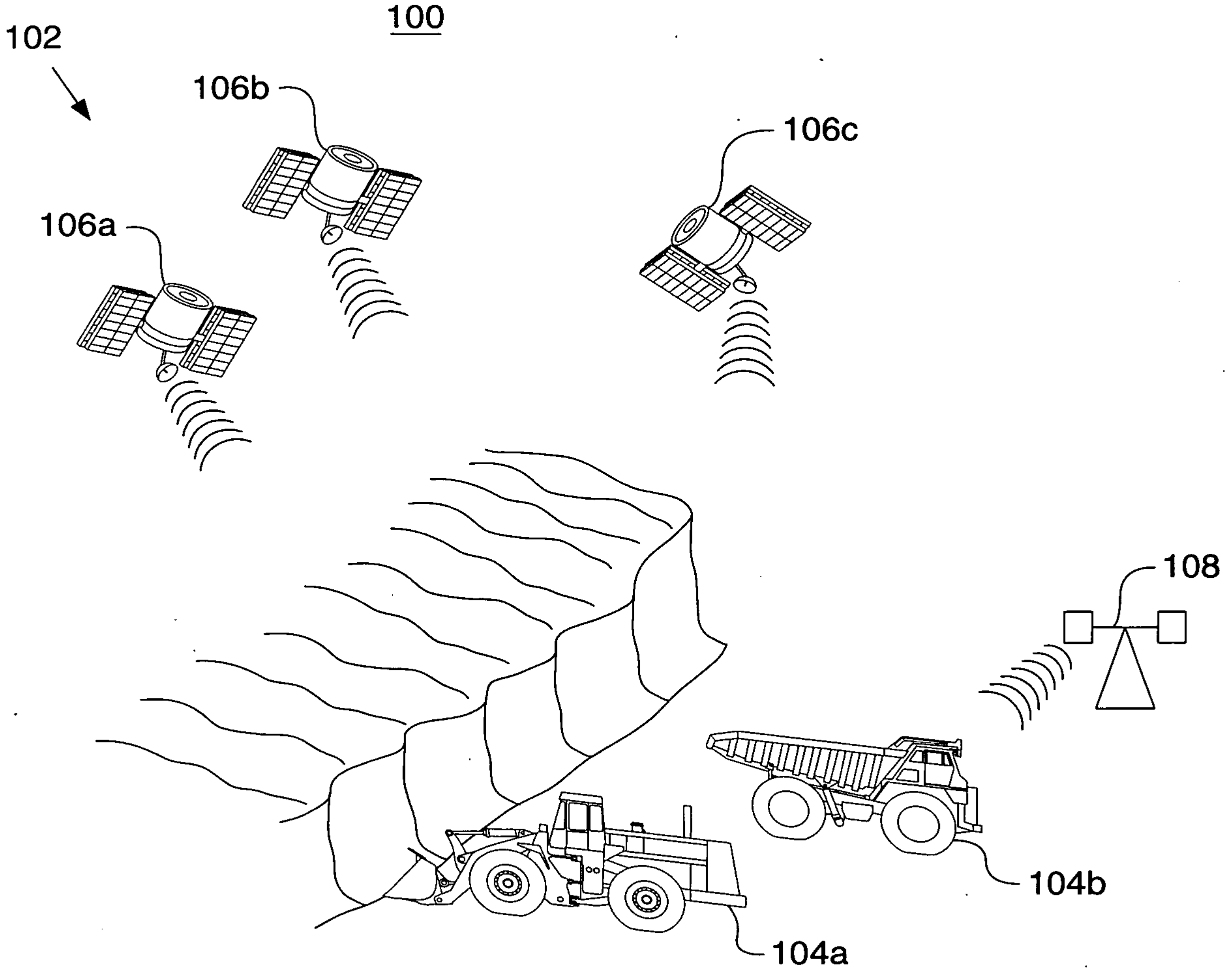


FIG. 2

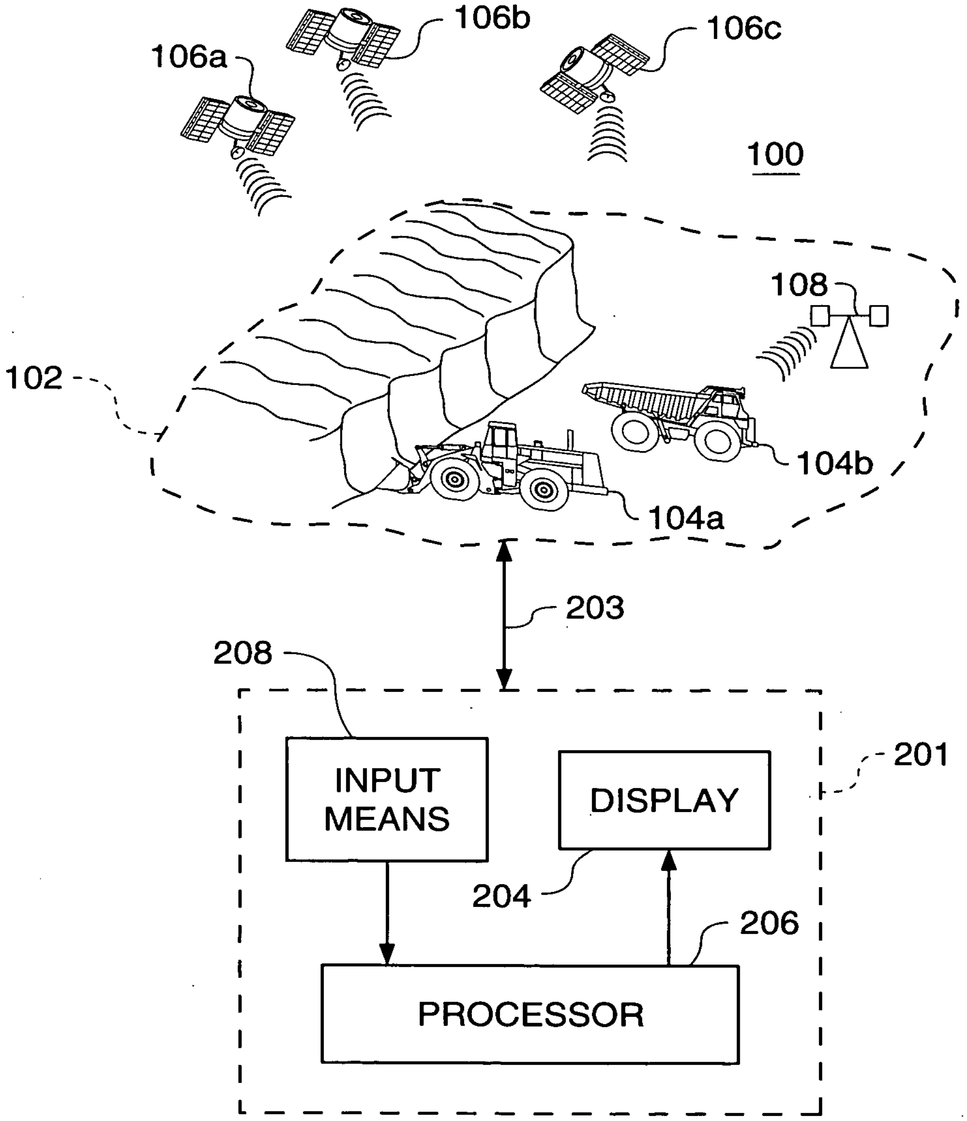

106b
106c
106a
100
108
102
104b
104a
203
208
201
INPUT MEANS
DISPLAY
204
206
PROCESSOR

Fig. 3

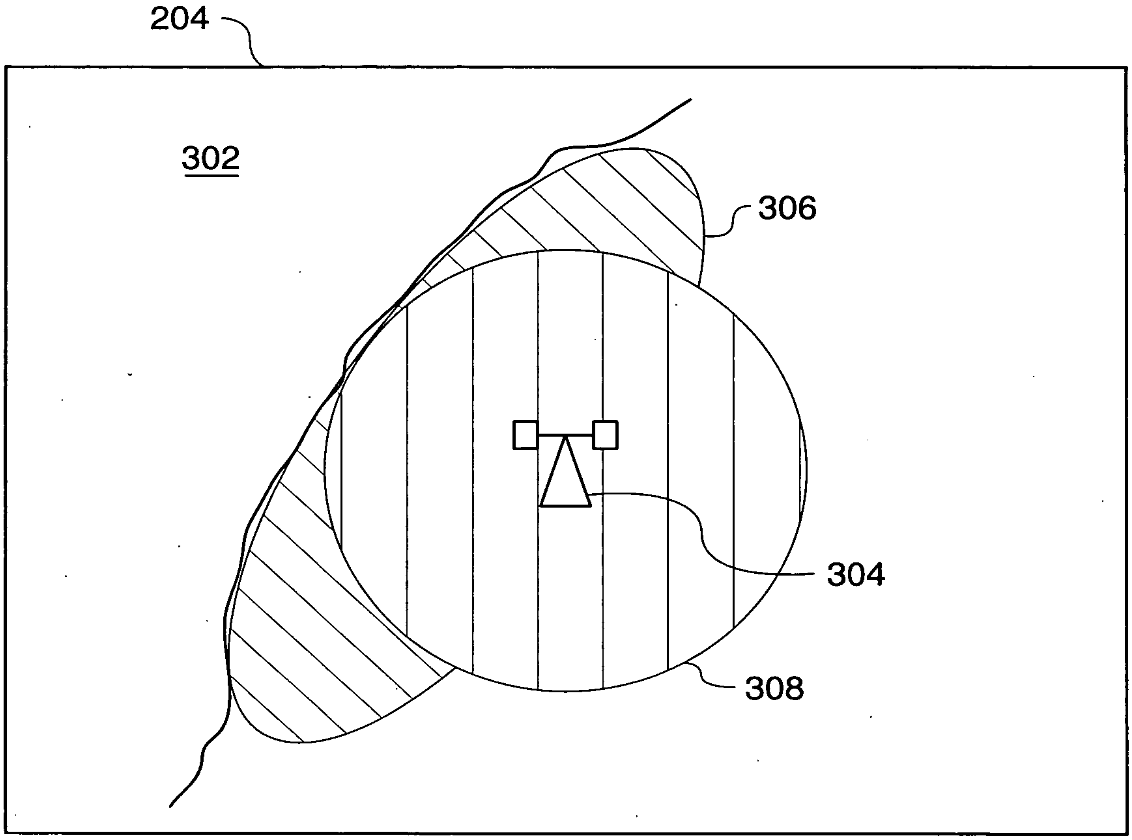


Fig. 4

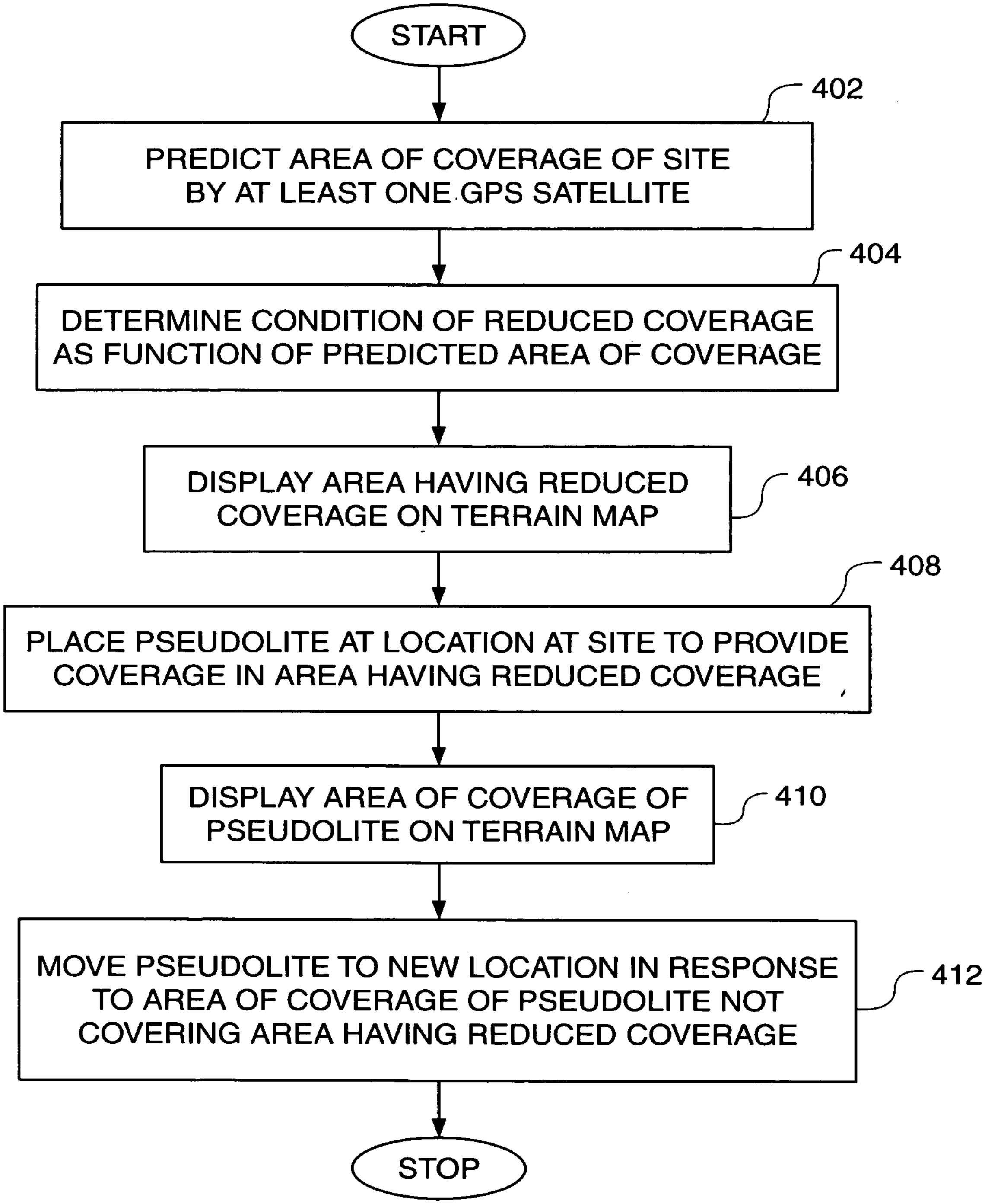

START
402
PREDICT AREA OF COVERAGE OF SITE BY AT LEAST ONE GPS SATELLITE
404
DETERMINE CONDITION OF REDUCED COVERAGE AS FUNCTION OF PREDICTED AREA OF COVERAGE
406
DISPLAY AREA HAVING REDUCED COVERAGE ON TERRAIN MAP
408
PLACE PSEUDOLITE AT LOCATION AT SITE TO PROVIDE COVERAGE IN AREA HAVING REDUCED COVERAGE
410
DISPLAY AREA OF COVERAGE OF PSEUDOLITE ON TERRAIN MAP
412
MOVE PSEUDOLITE TO NEW LOCATION IN RESPONSE TO AREA OF COVERAGE OF PSEUDOLITE NOT COVERING AREA HAVING REDUCED COVERAGE
STOP

Fig. 5

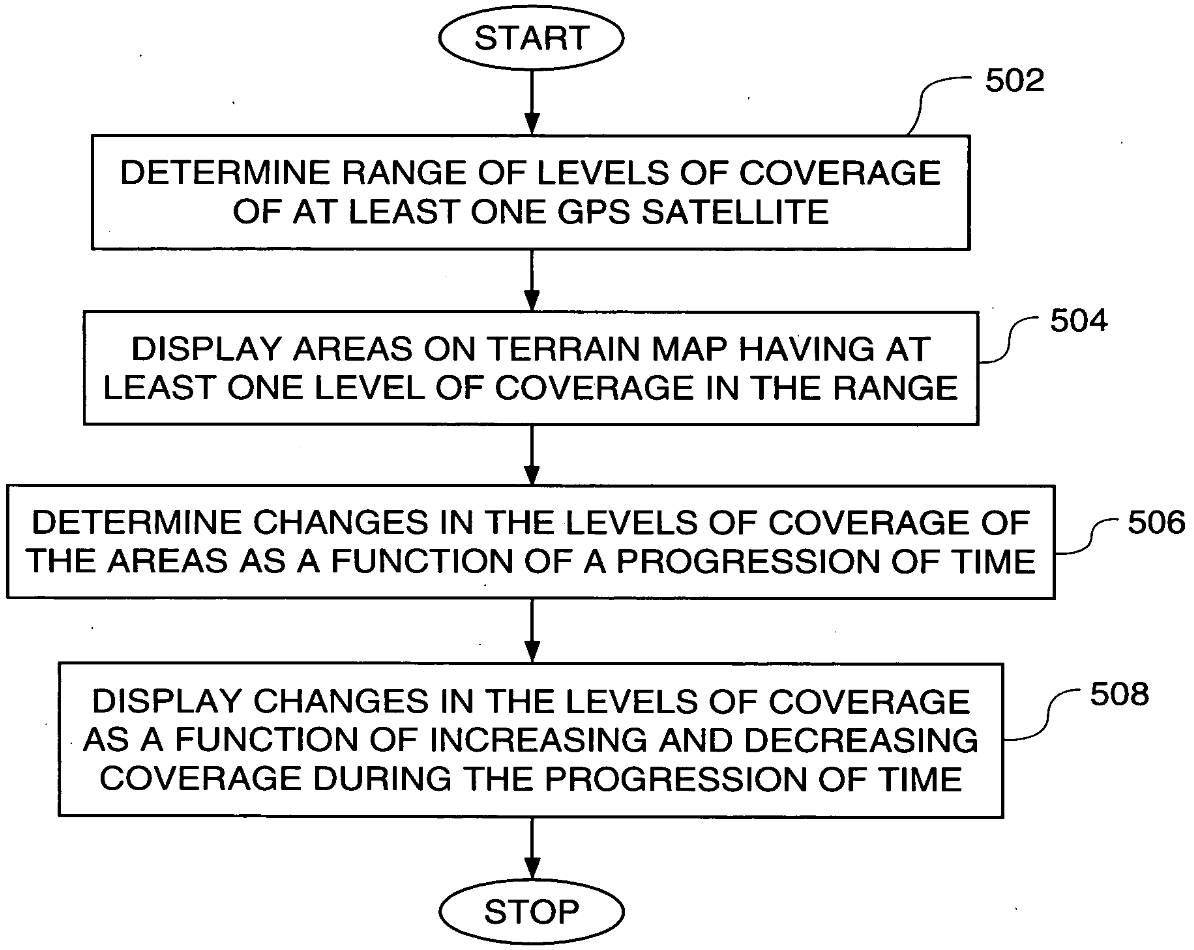

START
502
DETERMINE RANGE OF LEVELS OF COVERAGE OF AT LEAST ONE GPS SATELLITE
504
DISPLAY AREAS ON TERRAIN MAP HAVING AT LEAST ONE LEVEL OF COVERAGE IN THE RANGE
506
DETERMINE CHANGES IN THE LEVELS OF COVERAGE OF THE AREAS AS A FUNCTION OF A PROGRESSION OF TIME
508
DISPLAY CHANGES IN THE LEVELS OF COVERAGE AS A FUNCTION OF INCREASING AND DECREASING COVERAGE DURING THE PROGRESSION OF TIME
STOP

Fig. 6

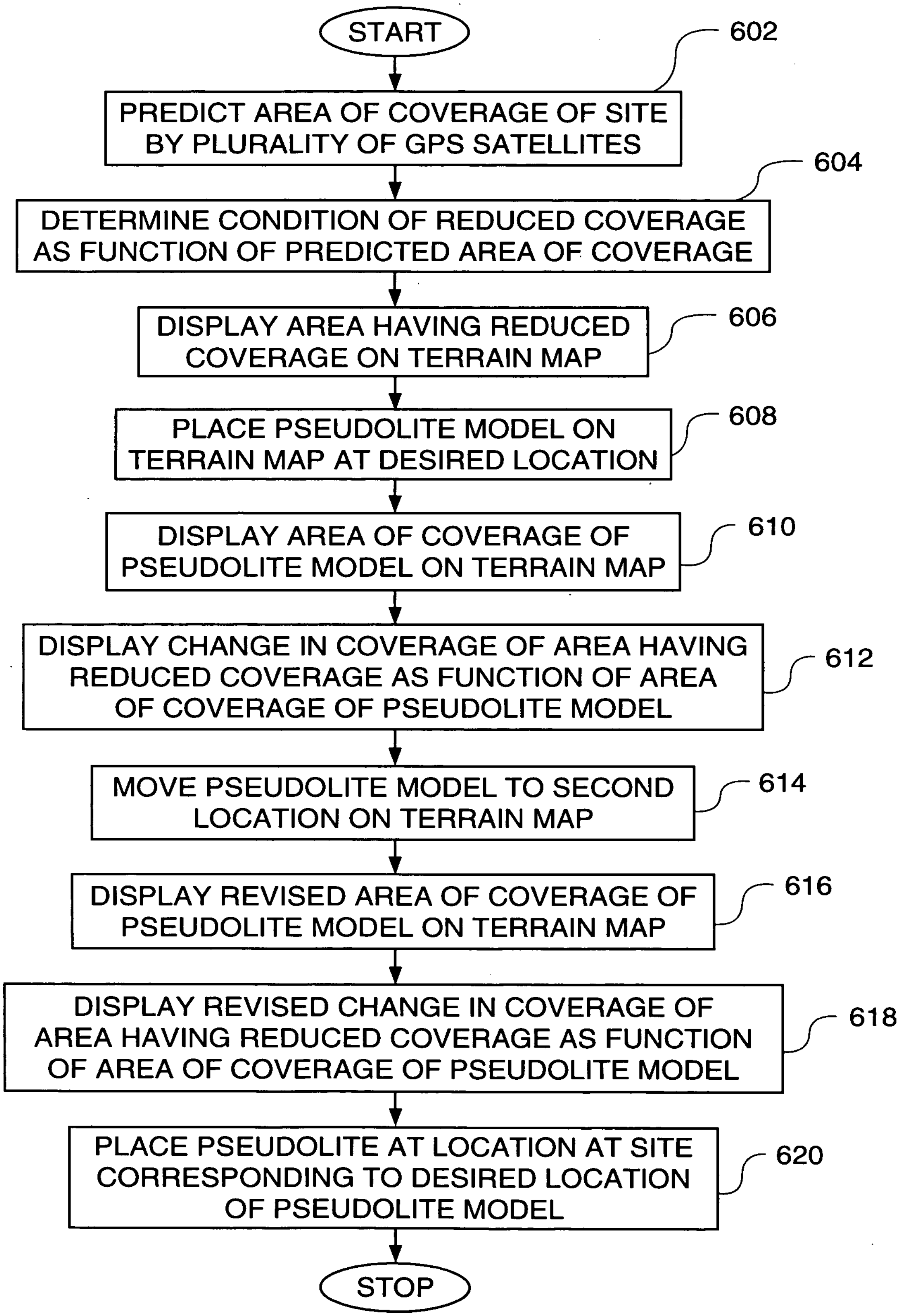

START
602
PREDICT AREA OF COVERAGE OF SITE BY PLURALITY OF GPS SATELLITES
604
DETERMINE CONDITION OF REDUCED COVERAGE AS FUNCTION OF PREDICTED AREA OF COVERAGE
606
DISPLAY AREA HAVING REDUCED COVERAGE ON TERRAIN MAP
608
PLACE PSEUDOLITE MODEL ON TERRAIN MAP AT DESIRED LOCATION
610
DISPLAY AREA OF COVERAGE OF PSEUDOLITE MODEL ON TERRAIN MAP
612
DISPLAY CHANGE IN COVERAGE OF AREA HAVING REDUCED COVERAGE AS FUNCTION OF AREA OF COVERAGE OF PSEUDOLITE MODEL
614
MOVE PSEUDOLITE MODEL TO SECOND LOCATION ON TERRAIN MAP
616
DISPLAY REVISED AREA OF COVERAGE OF PSEUDOLITE MODEL ON TERRAIN MAP
618
DISPLAY REVISED CHANGE IN COVERAGE OF AREA HAVING REDUCED COVERAGE AS FUNCTION OF AREA OF COVERAGE OF PSEUDOLITE MODEL
620
PLACE PSEUDOLITE AT LOCATION AT SITE CORRESPONDING TO DESIRED LOCATION OF PSEUDOLITE MODEL
STOP

Fig. 7

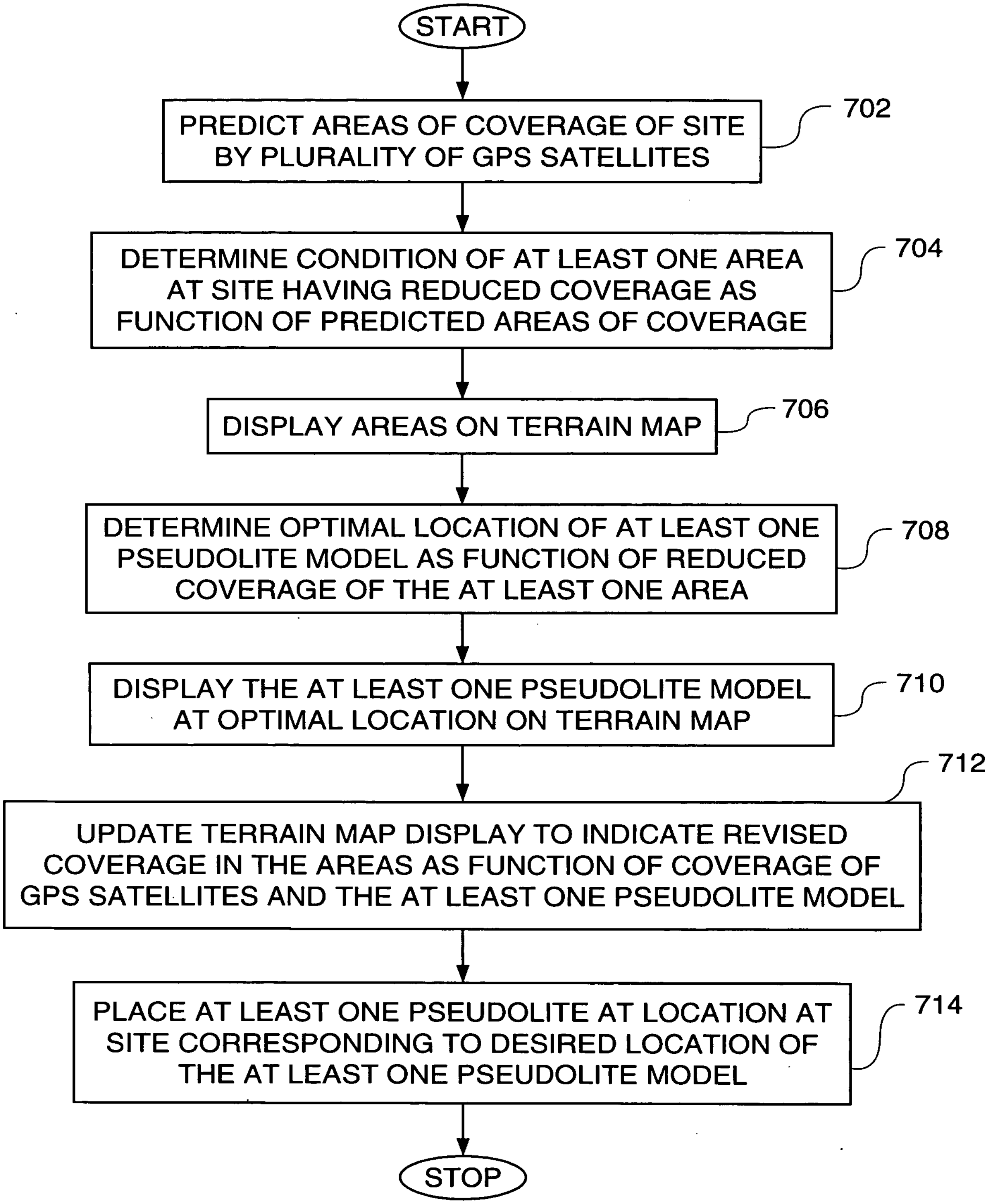

START
PREDICT AREAS OF COVERAGE OF SITE BY PLURALITY OF GPS SATELLITES
702
DETERMINE CONDITION OF AT LEAST ONE AREA AT SITE HAVING REDUCED COVERAGE AS FUNCTION OF PREDICTED AREAS OF COVERAGE
704
DISPLAY AREAS ON TERRAIN MAP
706
DETERMINE OPTIMAL LOCATION OF AT LEAST ONE PSEUDOLITE MODEL AS FUNCTION OF REDUCED COVERAGE OF THE AT LEAST ONE AREA
708
DISPLAY THE AT LEAST ONE PSEUDOLITE MODEL AT OPTIMAL LOCATION ON TERRAIN MAP
710
UPDATE TERRAIN MAP DISPLAY TO INDICATE REVISED COVERAGE IN THE AREAS AS FUNCTION OF COVERAGE OF GPS SATELLITES AND THE AT LEAST ONE PSEUDOLITE MODEL
712
PLACE AT LEAST ONE PSEUDOLITE AT LOCATION AT SITE CORRESPONDING TO DESIRED LOCATION OF THE AT LEAST ONE PSEUDOLITE MODEL
714
STOP

Fig. 8

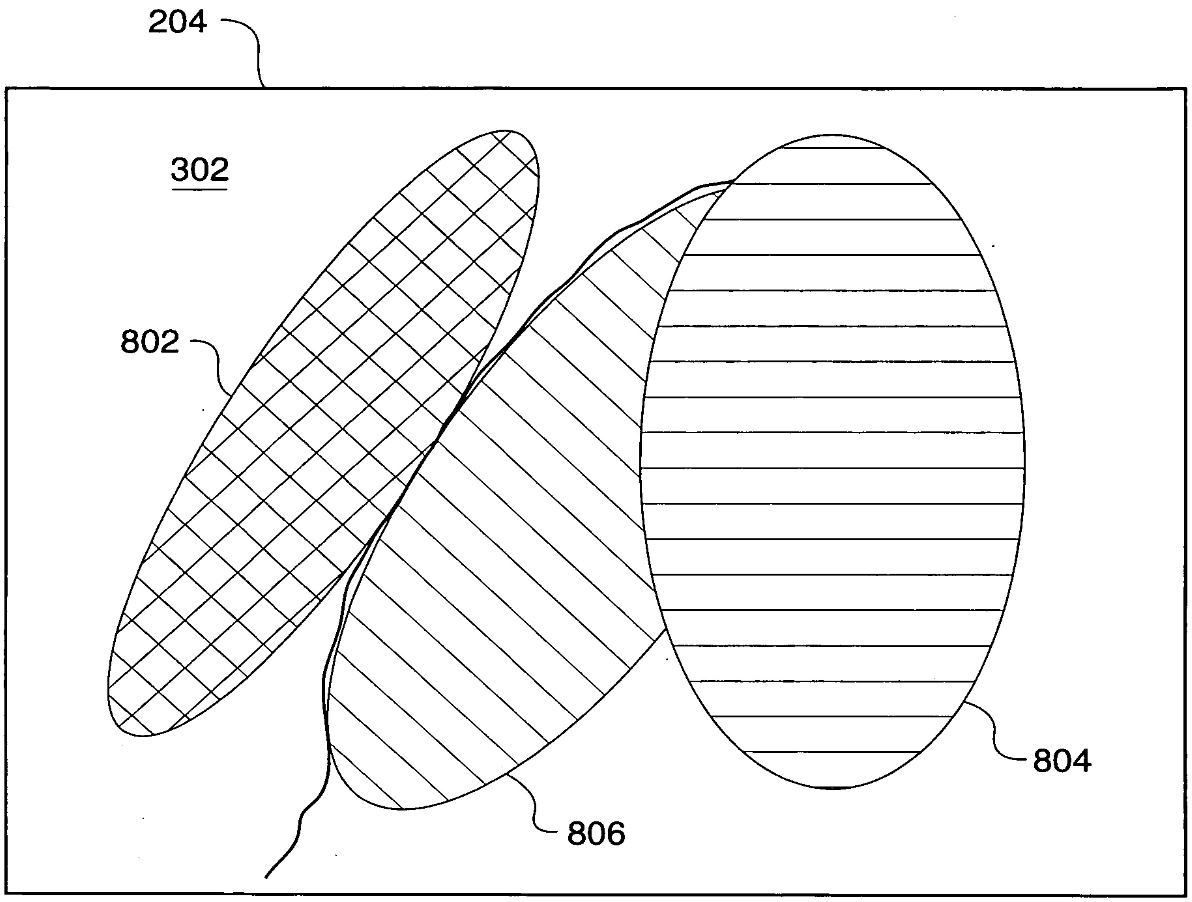


FIG. 9

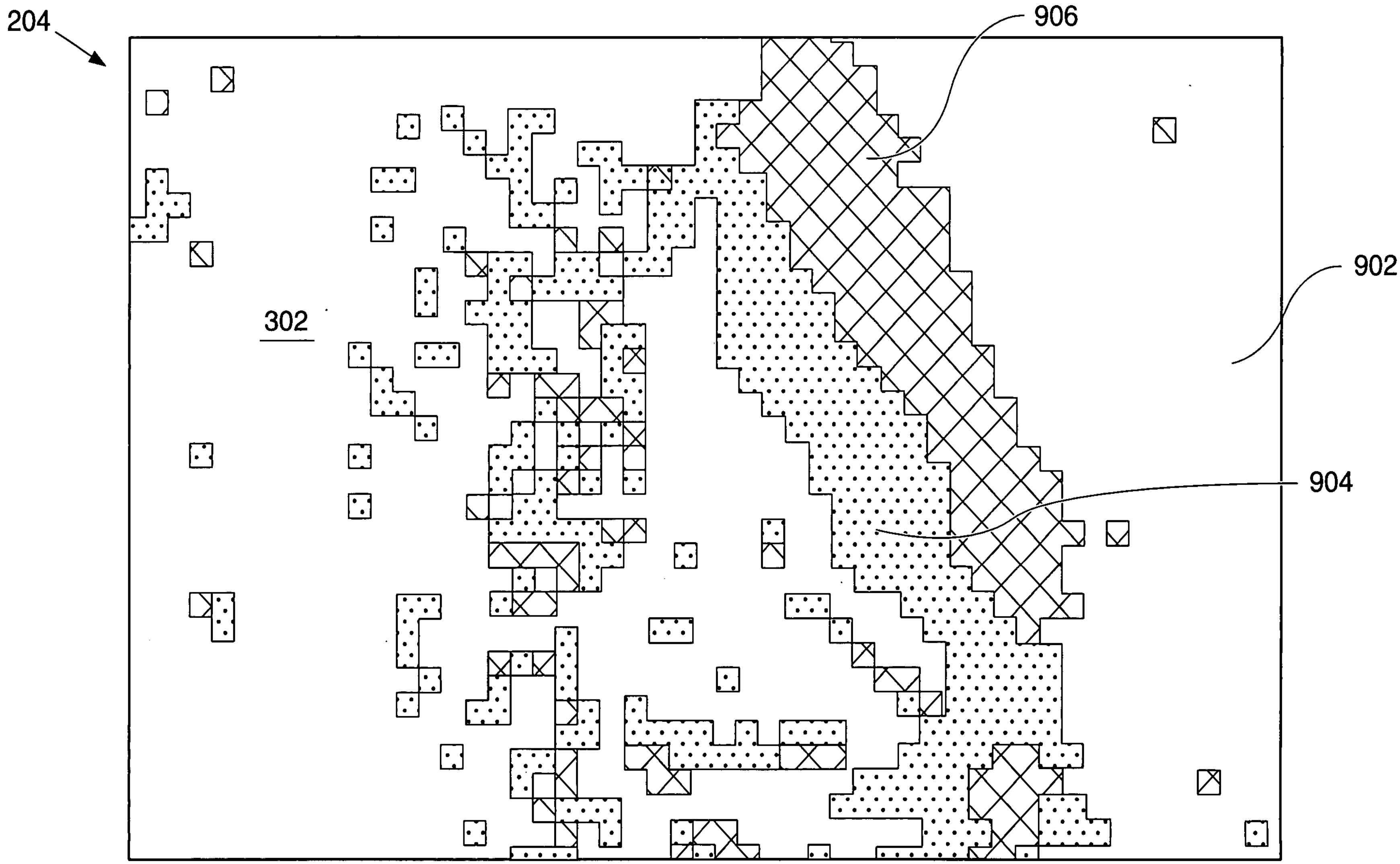
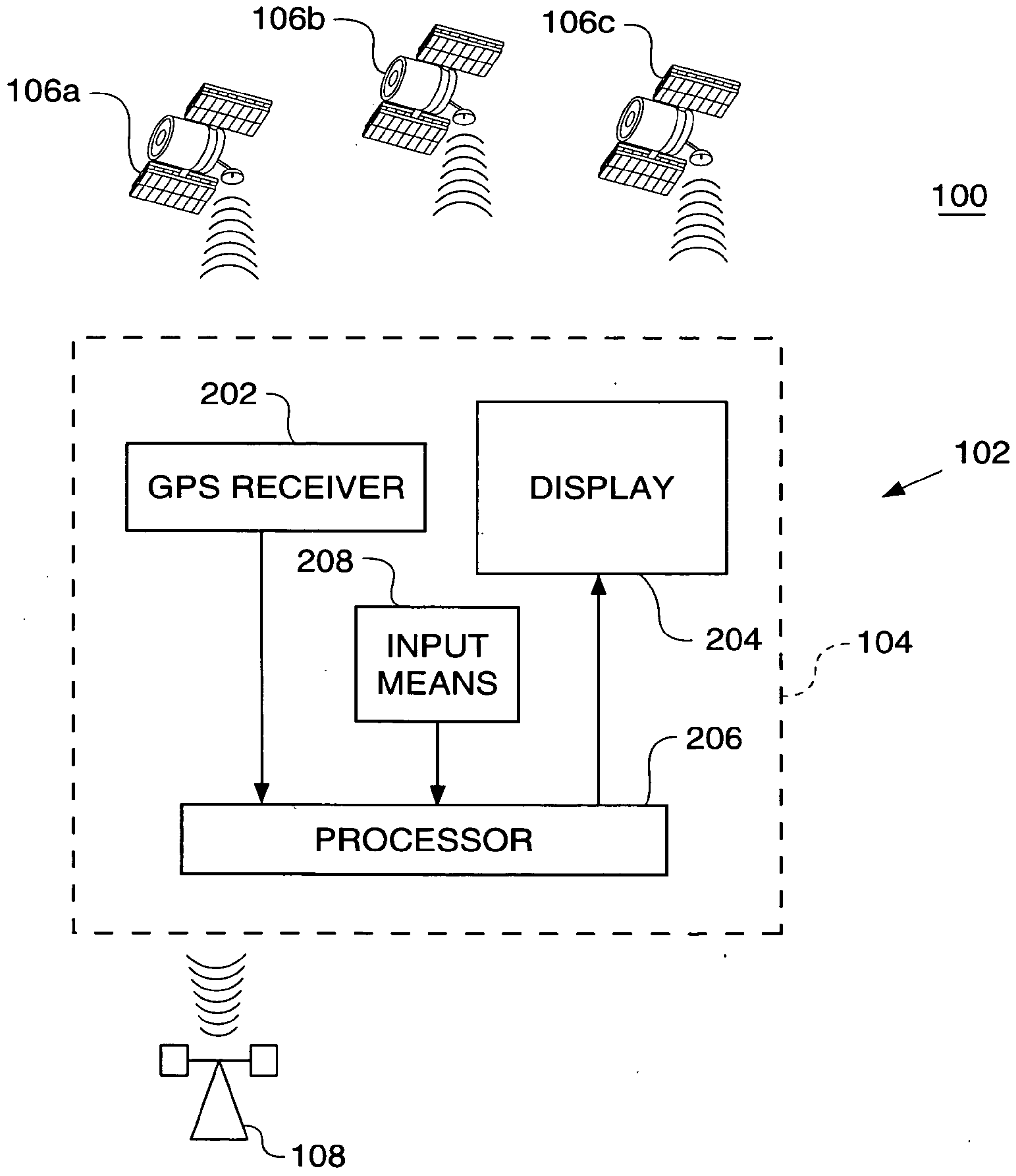


Fig. 10


106b
106c
106a
100
202
GPS RECEIVER
DISPLAY
102
208
204
104
INPUT MEANS
206
PROCESSOR
108